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Appl. No. 10/810,904  
Amdt. dated October 5, 2006  
Reply to Office Action of July 7, 2006

PATENT**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings of claims in the application:

**Listing of Claims:**

8. (Currently amended) An isolated polypeptide having PhzO activity encoded by a nucleic acid molecule selected from the group consisting of:

(a) a nucleotide sequence as given in SEQ ID NO:1 from nucleotide 76 to nucleotide 1564 or from nucleotide 89 to nucleotide 1564;

(b) a nucleotide sequence encoding a polypeptide comprising an amino acid sequence of SEQ ID NO:2;

(c) a nucleic acid sequence having at least 50% 95% nucleotide sequence identity with SEQ ID NO:1 from nucleotide 89 through nucleotide 1564;

(d) a nucleic acid sequence encoding a polypeptide having an amino acid sequence which has at least 60% 95% sequence identity with SEQ ID NO:2;

(e) a nucleic acid sequence which hybridizes under medium or high stringency conditions with the nucleotide sequence of SEQ ID NO:1 from nucleotide 89 through nucleotide 1564; and

(f) ~~a subsequence of (a), (b), (c), (d) or (e) of at least 100 nucleotides wherein the subsequence encodes a polypeptide fragment which has PhzO activity.~~

9. (Currently amended) An isolated polypeptide having PhzO activity, selected from the group consisting of:

(a) a polypeptide having an amino acid sequence of SEQ ID NO:2;

(b) a polypeptide having an amino acid sequence which has at least 60% 95% identity with amino acids 1 to 491 of SEQ ID NO:2.